NC/QC/AMG/2022-23/P2

Date: 26-12-2022

To,
The Executive Engineer,
RI Yelahanka
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of work: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02)

Item No	Description of work	Unit	Qty	No of Samples Tested	Standards
1	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed	Cum	801.77	8	Per 100 cum
2	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in	Nos	6980.00	7	Per 1000 Nos
3	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.	Tn	80.80	1	Per 500 Dia
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building,Irrigation works, Sub structure works	Cum	1374.41	27	Per 50 cum
5	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of	Sqm	3776.91	2	Per 2000 Sqm
6	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material	Cum	1332.38	4	Per 400 cum
7	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material	Cum	723.11	4	Per 200 cum

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Item No	Description of work	Unit	Qty	No of Samples Tested	Standards
8	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-	Cum	356.79	7	Per 50 cum
9	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading,	Cum	345.56	7	Per 50 cum
10	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed	Cum	954.63	10	Per 100 cum
11	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43	Cum	627.80	13	Per 50 cum

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Part bill

Thanking you,

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With Regards,

For Newzen Consultants Bangalore

NEWZEN CONSULTANT Bangalore

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NC/QC/AMG/2022-23/P2

Date: 26-12-2022

To,
The Executive Engineer,
Yelahanka Division
Bangalore.

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection Report for the below mentioned work.

Name of work: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02)

Item No	Description of work	Unit	Qty	Remarks
1	Removing and resetting of footpath slab (From Approved Arrival Rates)	sqm	711.98	Work done upto the Billed Quantity and the Quality is Satisfactory
2	Providing Flush/ Ruled pointing on stone slab ceiling with cement mortar 1:2 (1 cement : 2 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of	sqm	408.54	Work done upto the Billed Quantity and the Quality is Satisfactory
3	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) Volume-2	Cum	136.53	Work done upto the Billed Quantity and the Quality is Satisfactory
4	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of	sqm	544.72	Work done upto the Billed Quantity and the Quality is Satisfactory
5	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications,	cum	5175.68	Work done upto the Billed Quantity and the Quality is Satisfactory
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid	Cum	801.77	Work done upto the Billed Quantity and the Quality is Satisfactory
7	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting	Nos	6980.00	Work done upto the Billed Quantity and the Quality is Satisfactory
8	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	451.64	Work done upto the Billed Quantity and the Quality is Satisfactory
9	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.	Tonn	80.80	Work done upto the Billed Quantity and the Quality is Satisfactory
10	Appendix I – Additionalities for Formwork, Centering & Scaffolding Steel Channels for Road works-5% (Percentage on finished rate of concrete per m3) Culverts (Head walls)-5% (Percentage on finished rate of concrete per m3)Steel	Cum	1167.50	Work done upto the Billed Quantity and the Quality is Satisfactory
11	[illegible] works	Cum	95.23	Work done upto the Billed Quantity and the Quality is Satisfactory
12	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The	Cum	1374.41	Work done upto the Billed Quantity and the Quality is Satisfactory
13	Providing and fixing 100 mm thick Pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed	Sqm	3555.53	Work done upto the Billed Quantity and the Quality is Satisfactory
14	Providing and fixing 230 mm thick Pre cast RCC covering slab using reinforced cement concrete M 25 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed	Sqm	221.39	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
15	Providing and fixing 150 mm thick Pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed	Sqm	39.06	Work done upto the Billed Quantity and the Quality is Satisfactory
16	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2	Sqm	824.48	Work done upto the Billed Quantity and the Quality is Satisfactory
17	Providing and laying flooring with burnt stone slabs 10 cms thick rough chistle dressed on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3, , including cost of materials, mortar, labour, curing complete as	Sqm	261.00	Work done upto the Billed Quantity and the Quality is Satisfactory
20	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications,	Cum	4565.81	Work done upto the Billed Quantity and the Quality is Satisfactory
21	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and	Cum	1332.38	Work done upto the Billed Quantity and the Quality is Satisfactory
22	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site,	Cum	723.11	Work done upto the Billed Quantity and the Quality is Satisfactory
23	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.	Sqm	3846.97	Work done upto the Billed Quantity and the Quality is Satisfactory
24	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler,	cum	356.79	Work done upto the Billed Quantity and the Quality is Satisfactory
25	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom Volume-3	Sqm	8639.07	Work done upto the Billed Quantity and the Quality is Satisfactory
26	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the	cum	345.56	Work done upto the Billed Quantity and the Quality is Satisfactory
27	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished	Sqm	35.32	Work done upto the Billed Quantity and the Quality is Satisfactory
28	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid	cum	954.63	Work done upto the Billed Quantity and the Quality is Satisfactory
29	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine	cum	627.80	Work done upto the Billed Quantity and the Quality is Satisfactory
30	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and [illegible]	T.Km	6803.65	Work done upto the Billed Quantity and the Quality is Satisfactory
50	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all	Sqm	43.20	Work done upto the Billed Quantity and the Quality is Satisfactory

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Part bill

Thanking you,

With Regards,

For Newzen Consultants Bangalore

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